



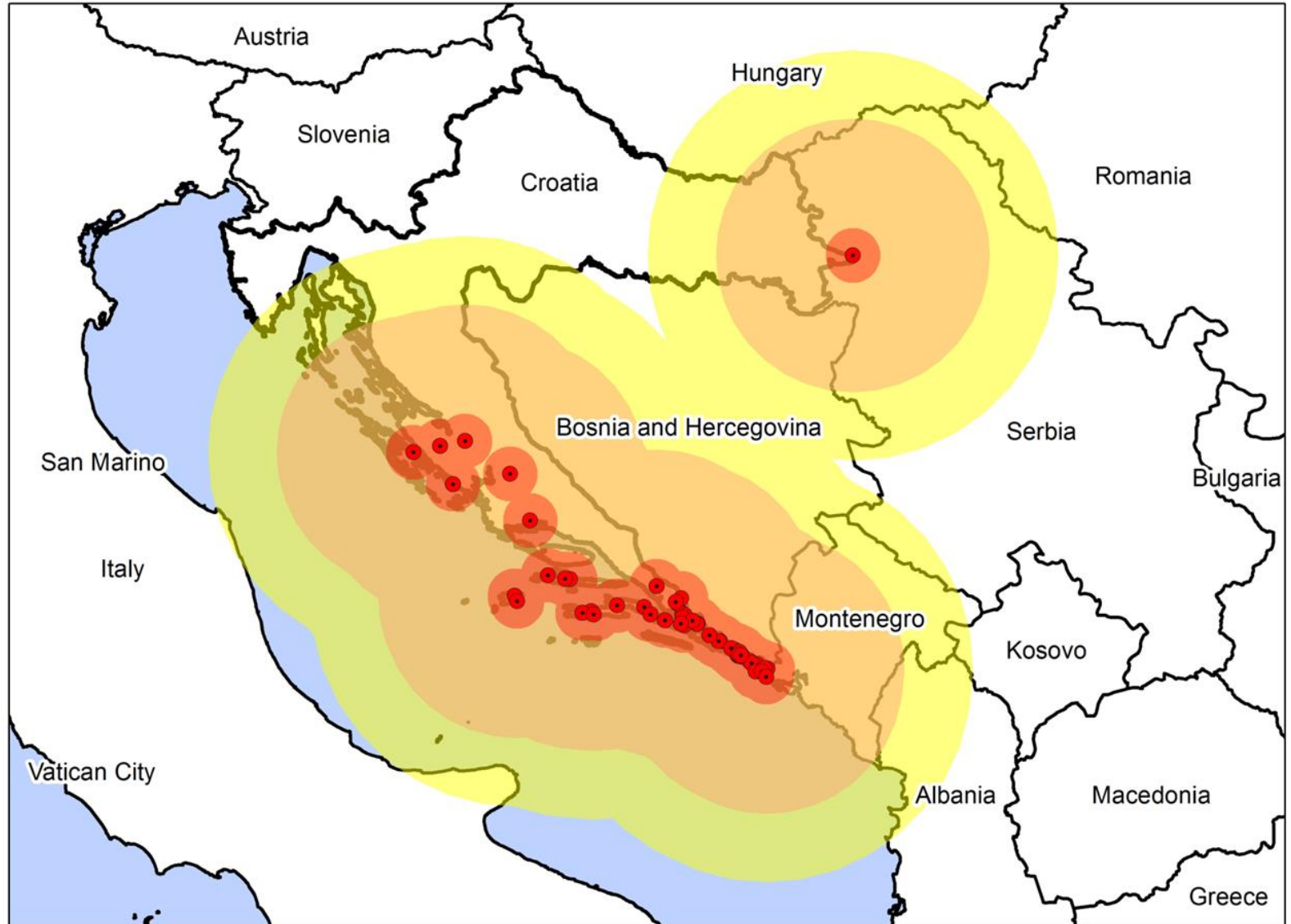
# BTD vaccination in Croatia February-March 2015

Ministry of Agriculture  
Veterinary and Food Safety Directorate  
ScPAFF, April 16-17, 2015

# BT disease occurrence 2014/2015

- Suspicion based on clinical signs in sheep notified on 27 October
- Immediately measures prescribed by Directive 2000/75 were implemented
- Until March 2015:
  - 82 outbreaks in 54 Settlements on the territory of 5 Counties (Dubrovnik-Neretva, Split-Dalmatia, Sibenik-Knin, Zadar and Vukovar-Srijem) are confirmed
- Serotype 4 is proved to circulate within the Croatia

# BTD October 2014 -March 2015 (82 OUTBREAKS/ 54 SETTLEMENTS/ 5 COUNTIES)



# Vaccination plan and Data base

- **Goal** – to vaccinate all bovines, caprine and ovine animals older than 3 months - 2 times
  - 457 000 bovine animals & 660 000 sheep and goats  
(app 1 .100 000 animals )
- Vaccination plan
  - Date of start : 01 February 2015
  - End date : 31 March 2015
  - Additionally extended deadline in certain situation: up to 15 April 2015
  - Data base for vaccination paid by State Budget will be closed on 20 April 2015
  - Vaccine used Bluevac serotype 4
- Entering of data on voluntarily vaccinated animals paid by the animal owners is „opened”

# Vaccination %\_Sheep\_April 13



Species	County	Total no. of holdings	No. of farms vaccinated x2	%	No. of sheep	No. of sheeps vacc x 2	%
S H E E P	Bjelovarsko-bilogorska	2459	2202	89,55	57157	51285	89,73
	Brodsko-posavska	506	459	90,71	9468	9189	97,05
	Dubrovačko-neretvanska	161	87	54,04	4693	2688	57,28
	Grad Zagreb	52	39	75,00	1552	1294	83,38
	Istarska	517	413	79,88	18135	11597	63,95
	Karlovačka	1022	917	89,73	23809	20852	87,58
	Koprivničko-križevačka	693	604	87,16	10478	8934	85,26
	Krapinsko-zagorska	319	273	85,58	3143	2656	84,51
	Ličko-senjska	1856	1361	73,33	69479	51730	74,45
	Međimurska	42	28	66,67	622	495	79,58
	Osječko-baranjska	964	879	91,18	39054	35611	91,18
	Požeško-slavonska	760	668	87,89	20762	18679	89,97
	Primorsko-goranska	788	591	75,00	32074	22333	69,63
	Sisačko-moslavačka	2130	1914	89,86	39569	34640	87,54
	Splitsko-dalmatinska	954	741	77,67	44156	31303	70,89
	Šibensko-kninska	1157	859	74,24	60068	44281	73,72
	Varaždinska	172	154	89,53	2600	2255	86,73
	Virovitičko-podravska	857	781	91,13	22627	19052	84,20
	Vukovarsko-srijemska	502	432	86,06	16314	14599	89,49
	Zadarska	1844	1259	68,28	97981	65486	66,84
Zagrebačka	837	749	89,49	17850	15516	86,92	
<b>TOTAL</b>		<b>18592</b>	<b>15410</b>	<b>82,89</b>	<b>591591</b>	<b>464475</b>	<b>78,51</b>

# Vaccination %\_Goat\_April 13



Species	County	Total no. of holdings	No . farms vaccinated x 2	%	Numbr of goats	No. of goats vaccinated x 2	%
G o a t	Bjelovarsko-bilogorska	265	214	80,75	3147	2715	86,27
	Brodsko-posavska	147	133	90,48	800	762	95,25
	Dubrovačko-neretvanska	183	65	35,52	1670	829	49,64
	Grad Zagreb	51	44	86,27	390	296	75,90
	Istarska	279	208	74,55	2851	1951	68,43
	Karlovačka	188	147	78,19	1747	1265	72,41
	Koprivničko-križevačka	156	126	80,77	2299	1856	80,73
	Krapinsko-zagorska	129	115	89,15	641	558	87,05
	Ličko-senjska	134	58	43,28	1940	1253	64,59
	Međimurska	68	58	85,29	4183	2942	70,33
	Osječko-baranjska	351	289	82,34	2105	1784	84,75
	Požeško-slavonska	155	110	70,97	1227	789	64,30
	Primorsko-goranska	192	116	60,42	1515	1083	71,49
	Sisačko-moslavačka	330	250	75,76	2831	2106	74,39
	Splitsko-dalmatinska	713	460	64,52	12357	7964	64,45
	Šibensko-kninska	467	333	71,31	7082	4858	68,60
	Varaždinska	131	112	85,50	4667	3722	79,75
	Virovitičko-podravska	195	161	82,56	1420	1035	72,89
	Vukovarsko-srijemska	262	228	87,02	1298	1097	84,51
	Zadarska	419	197	47,02	13300	7484	56,27
	Zagrebačka	258	226	87,60	2319	1956	84,35
	<b>TOTAL</b>		<b>5073</b>	<b>3650</b>	<b>71,95</b>	<b>69789</b>	<b>48305</b>

# Vaccination %\_Cattle\_April 13



Species	County	Total no. of farms	No. of farms vacc x 2	%	Total no of cattle	No. of cattle vacc x 2	%
C a t t l e	Bjelovarsko-bilogorska	3938	3499	88,85	71341	56226	78,81
	Brodsko-posavska	1058	968	91,49	14189	11563	81,49
	Dubrovačko-neretvanska	220	81	36,82	1625	713	43,88
	Grad Zagreb	535	445	83,18	3303	2390	72,36
	Istarska	950	786	82,74	8672	6178	71,24
	Karlovačka	2143	1903	88,80	16612	12474	75,09
	Koprivničko-križevačka	4078	3670	90,00	69688	56830	81,55
	Krapinsko-zagorska	2754	2670	96,95	10275	8745	85,11
	Ličko-senjska	1786	1241	69,48	12338	7170	58,11
	Međimurska	656	612	93,29	10991	9303	84,64
	Osječko-baranjska	1681	1378	81,98	82305	66925	81,31
	Požeško-slavonska	716	628	87,71	11538	10227	88,64
	Primorsko-goranska	304	200	65,79	1480	928	62,70
	Sisačko-moslavačka	2530	2234	88,30	29095	22490	77,30
	Splitsko-dalmatinska	1463	1047	71,57	6773	4090	60,39
	Šibensko-kninska	739	494	66,85	4233	2320	54,81
	Varaždinska	1280	1169	91,33	8782	6962	79,28
	Virovitičko-podravska	956	743	77,72	15986	12063	75,46
	Vukovarsko-srijemska	1388	1179	84,94	30504	24735	81,09
	Zadarska	429	250	58,28	4675	2830	60,53
Zagrebačka	4049	3763	92,94	41507	32948	79,38	
<b>TOTAL</b>		<b>33653</b>	<b>28960</b>	<b>86,05</b>	<b>455912</b>	<b>358110</b>	<b>78,55</b>

# Side effects on VMP - BLUEVAC 4

- Cattle – 2 reported as mild side effects
  - swelling at the application site /withdrawn in a few days
  - mild symptoms of anaphylaxis (tremor , difficulty breathing ) / gone without the use of antihistamines
- Goat and sheep
  - No official reports of side effects



# Conclusion

- On May 13<sup>th</sup>
  - 78,51% of sheep vaccinated
  - 69,22 % of goats vaccinated
  - 78,55 % of cattle vaccinated

# BTV serotype 1 – Island Lastovo and Vodice

- Follow up of the epidemiological investigation on incursion of Serotype 1 is done on island Lastovo and Vodice during March 2015

county	municipality	animal species	ELISA		PCR		SNT		Serotype*
			tested	poz	tested	poz	tested	poz	
Dubrovni k-neretva	Lastovo	cattle	8	8	8	5	8	8	1
		sheep	26	14	26	4	14	10	1
		goat	44	41	38	12	41	36	1
Šibenik- Knin	Vodice	sheep	102	21	21	2	2	2	1,4

\*Low titers 1:10 - 1:80

- Conclusion:
  - No clinical signs reported
  - Infection probably from late December 2014.
  - BTV Serotype 1 circulates continuously in animal population on Lastovo during the winter months
  - monitoring of epi situation...continuing

# BTD surveillance program

- Sentinel animals - all over the country
- Incursion of new Serotype (Serotype 1) – coastal counties
- Control of post vaccination immunity – all over the country
- Entomological survey – all over the country
- Date of start: May 2015
- End date: November 2015